division of

Community Health Services

Manitoba
Health

MATERNAL AND CHILD CARE

VITAL STATISTICS

12TH UPDATE

1986 MANITOBA VITAL STATISTICS

MANITOBA HEALTH
MATERNAL AND CHILD HEALTH DIRECTORATE

RELEASED: AUGUST, 1988.

Manitoba

Health

Maternal and Child Health

831 Portage Avenue
Winnipeg, Manitoba, CANADA
R3G 0N6

(204) 945-8450

August, 1988

TO RECIPIENTS OF MATERNAL AND CHILD CARE 12TH UPDATE
1986 MANITOBA VITAL STATISTICS

This twelfth update of the Maternal and Child Care Report employs 1986 Vital Statistics for Manitoba Regions and Winnipeg Districts and June 1, 1986 Manitoba Health Services Commission figures for regional populations.

Requests for copies or information of past or current reports should be forwarded to the Maternal and Child Health Directorate.

TABLE OF CONTENTS

		PAGE
1.	Glossary of Terms and Definitions	1
2.	Map of Manitoba with Health & Community Services Regions	3
Part I	Manitoba Population	
I-1A	Manitoba Population by Health & Community Services Region 1982 - 1986	5
I-1B	Manitoba Population by Health and Community Services Region 1982 - 1986 (Indian Reserves and Unorganized Territory Population allocated to region)	6
I-2	Winnipeg Population by Sub-regional Residence Areas 1982 - 1986	7
Part IV	Birth and Death Statistics by Manitoba Health and Community Services Region	
IV-1A-1	Females Between 15-49 by Manitoba Health & Community Services Region 1982 - 1986	8
IV-1A-2	Females Between 15-49 by Manitoba Health & Community Services Region 1982 - 1986 (Indian Reserves and Unorganized Territory allocated according to region)	9
IV-1B-1	Total Births by Manitoba Health & Community Services Region 1982 - 1986	10
IV-1C-1	Live Births by Manitoba Health & Community Services Region 1982 - 1986	11
IV-1D-1	General Fertility Rates by Manitoba Health & Community Services Region and for Canada 1982 - 1986	12
IV-2A	Infant Deaths by Manitoba Health & Community Services Region 1982 - 1986	14
IV-2B	Infant Death Rates by Manitoba Health & Community Services Region and for Canada 1982 - 1986	15
IV-3A	Newborn Deaths by Manitoba Health & Community Services Region 1982 - 1986	16

		PAGE
IV-3B	Newborn Death Rates by Manitoba Health & Community Services Region and for Canada 1982 - 1986	17
IV-4A	Perinatal Deaths by Manitoba Health & Community Services Region 1982 - 1986	18
IV-4B	Perinatal Death Rates by Manitoba Health & Community Services Region 1982 - 1986	19
IV-4C	Perinatal Deaths by Manitoba Health & Community Services Region 1982 - 1986	20
IV-4D	Perinatal Death Rates by Manitoba Health & Community Services Region and for Canada 1982 - 1986	21
IV-4E	Stillbirths by Manitoba Health & Community Services Region 1982 - 1986	22
IV-4F	Stillbirth Rates by Manitoba Health & Community Services Region and for Canada 1982 - 1986	23
IV-4G	Stillbirths by Manitoba Health & Community Services Region 1982 - 1986	24
IV-4H	Stillbirth Rates by Manitoba Health & Community Services Region and for Canada 1982 - 1986	25
IV-5A	Neonatal Deaths by Manitoba Health & Community Services Region 1982 - 1986	26
IV-5B	Neonatal Death Rates by Manitoba Health & Community Services Region and for Canada 1982 - 1986	27
IV-6A	Post-Neonatal Deaths by Manitoba Health & Community Services Region 1982 - 1986	28
IV-6B	Post-Neonatal Death Rates by Manitoba Health & Community Services Region and for Canada 1982 - 1986	29
IV-7A	Maternal Deaths by Manitoba Health & Community Services Region 1982 - 1986	30
IV-8A	Deaths Under One Year of Age by Manitoba Health & Community Services Region 1986	32
IV-8B	Death Rates Under One Year of Age by Manitoba Health & Community Services Region 1986	33
IV-9A	Neonatal Deaths by Cause of Death and Manitoba Health & Community Services Region 1986	34

		PAGE
IV-9B	Neonatal Death Rates by Cause of Death and Manitoba Health & Community Services Region 1986	35
IV-10A	Post-Neonatal Deaths by Cause of Death and Manitoba Health & Community Services Region 1986	36
IV-10B	Post-Neonatal Death Rates by Cause of Death and Manitoba Health & Community Services Region 1986	37
Part V	Birth and Death Statistics for Winnipeg Region	
V-1A	Females Between 15-49 Years of Age, Winnipeg Region 1982 - 1986	38
V-1B	General Fertility Rates, Winnipeg Region 1982 - 1986	38
V-1C	Live Births, Winnipeg Region 1982 - 1986	39
V-1D	Total Births, Winnipeg Region 1982 - 1986	39
V-2A	Infant Deaths, Winnipeg Region 1982 - 1986	40
V-2B	Infant Death Rate, Winnipeg Region 1982 - 1986	40
V-3A	Newborn Deaths, Winnipeg Region 1982 - 1986	41
V-3B	Newborn Death Rates, Winnipeg Region 1982 - 1986	41
V-4A	Perinatal Deaths, Winnipeg Region 1982 - 1986	42
V-4B	Perinatal Death Rates, Winnipeg Region 1982 - 1986	42
V-4C	Perinatal Deaths, Winnipeg Region 1982 - 1986	43
V-4D	Perinatal Death Rates, Winnipeg Region 1982 - 1986	43
V-4E	Stillbirths, Winnipeg Region 1982 - 1986	44
V-4F	Stillbirth Rates, Winnipeg Region 1982 - 1986	44
V-4G	Stillbirths, Winnipeg Region 1982 - 1986	45
V-4H	Stillbirth Rates, Winnipeg Region 1982 - 1986	45
V-5A	Neonatal Deaths, Winnipeg Region 1982 - 1986	46
V-5B	Neonatal Death Rates, Winnipeg Region 1982 - 1986	46
V-6A	Post-Neonatal Deaths, Winnipeg Region 1982 - 1986	47

		PAGE
V-6B	Post-Neonatal Death Rates, Winnipeg Region 1982 - 1986	47
V-7	Post-Neonatal Deaths by Cause and Winnipeg Area 1986	48
V-8A	Deaths Under One Year of Age by Winnipeg Area and by Selected Ages 1986	49
V-8B	Death Rates Under One Year of Age by Winnipeg Area and by Selected Ages 1986	50
Part VI	Manitoba: Selected Vital Statistics	
VI-1	Selected Vital Statistics Rates by Manitoba Health & Community Services Region of Residence 1986	51
VI-2A	Selected Vital Statistics by Infant Weight at Birth 1986	52
VI-2B	Selected Vital Statistics by Parity 1986	53
VI-2C	Selected Vital Statistics by Mother's Age 1986	54
VI-3A	Percentage Distribution of Live Births by Birth Weight and Manitoba Health & Community Services Region 1986	55
VI-3B	Percentage Distribution of Mothers by Parity and Manitoba Health & Community Services Region 1986	56
VI-3C	Percentage Distribution of Live Births by Mother's Age and Manitoba Health & Community Services Region 1986	57
VI-4	Number of Live Births and Percentage Distribution 1986:	58
	A Birth Weight by Region B Parity by Region C Mother's Age by Region	
VI-5A	Deaths Under One Year of Age by Manitoba Health & Community Services Region 1986	59
VI-5B	Death Rates Under One Year of Age by Manitoba Health & Community Services Region 1986	60

GLOSSARY OF TERMS AND DEFINITIONS

A. Symbols

N/A	Not Available	-	Zero Activity
r	Revised	*	Refer to Footnote(s)

B. Definitions

1. **Age** - Completed age in years, months and days.

2. **Population**

   a) Manitoba - based on Manitoba Health Services Commission (MHSC) population reports. Regional populations are by region of residence.

   b) Canada - Based on Statistics Canada population data.

3. **Births**

   a) Live Births - Infants born alive excluding stillbirths.

   b) Stillbirths - Fetal deaths of 20 (or 28) or more weeks gestation.

   c) Total Births - Live births plus stillbirths.

4. **Birthrates**

   a) Live Births - Infants born alive, excluding stillbirths, per 1,000 population.

   b) Stillbirth Ratio - Fetal deaths of 20 (or 28) or more weeks gestation per 1,000 live births.

5. **Deaths**

   a) Infant - Infant deaths under 1 year of age, excluding stillbirths.

   b) Maternal - Deaths due to delivery and complications of pregnancy, childbirth and the puerperium.

   c) Neonatal - Infant deaths under 28 days of age, excluding stillbirths.

   d) Newborn - Infant deaths from birth to less than 7 days of age.

   e) Perinatal - Fetal deaths of 20 (or 28) or more weeks gestation plus infant deaths under 7 days of age.

   f) Post-Neonatal - Infant deaths from 28 days to under 1 year of age.

6. **Death Rates**

a) Infant - Infant deaths under 1 year of age, excluding stillbirths, per 1,000 live births.

b) Maternal - Deaths due to delivery and complications of pregnancy, childbirth and the puerperium per 10,000 live births.

c) Neonatal - Infant deaths under 28 days of age, excluding stillbirths, per 1,000 live births.

d) Newborn - Infant deaths from birth to less than 7 days of age per 1,000 live births.

e) Perinatal - Fetal deaths of 20 (or 28) or more weeks gestation plus infant deaths under 7 days of age, per 1,000 total births.

f) Post-Neonatal - Infant deaths from 28 days to under 1 year of age, per 1,000 live births.

7. **General Fertility Rate** - Live births per 1,000 females between ages 15-49.

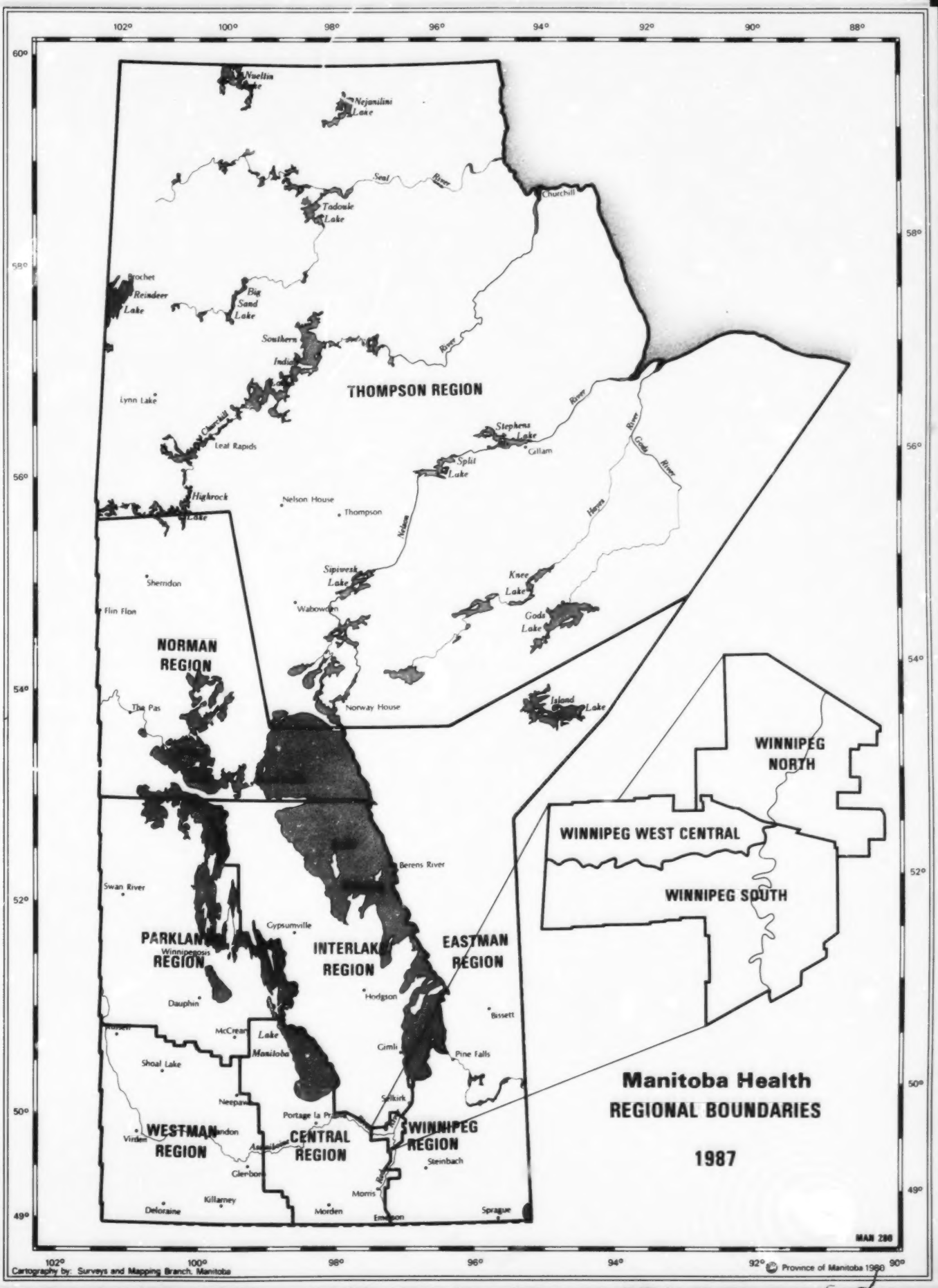
8. **Parity** - The number of total births (current birth plus previous births) that a particular mother has had. This includes live births and stillbirths.

9. **Region of Residence** - Usual residence of mother as recorded on the registration of live birth.

10. **Indian Reserve*** - A tract of land the legal title to which is vested in the Crown, that has been set apart by the Crown for the use and benefit of an Indian band.

11. **Unorganized Territory*** - Any territory in Manitoba which is not under the jurisdiction of any legal government that has taxing authority.

* Vital events for these categories are not necessarily complete. The usual residence of the mother may not be accurately documented, e.g. a Winnipeg address may be used by a Status Indian from a reserve at the time of birth notification, if she was 'boarding' with relatives/friends in the city prior to delivery.


Manitoba Health
REGIONAL BOUNDARIES
1987
THOMPSON REGION
NORMAN REGION
PARKLAND REGION
INTERLAKE REGION
EASTMAN REGION
WESTMAN REGION
CENTRAL REGION
WINNIPEG REGION
WINNIPEG NORTH
WINNIPEG WEST CENTRAL
WINNIPEG SOUTH
Nueltin Lake
Nejanilini Lake
Seal River
Churchill
Tadoule Lake
Brochet
Reindeer Lake
Big Sand Lake
Southern Indian Lake
Lynn Lake
Leaf Rapids
Churchill River
Stephens Lake
Gillam
Split Lake
Gods River
Hayes River
Nelson River
Highrock Lake
Nelson House
Thompson
Sipiwesk Lake
Knee Lake
Gods Lake
Island Lake
Sherridon
Flin Flon
Wabowden
Norway House
The Pas
Swan River
Berens River
Gypsumville
Winnipegosis
Dauphin
Hodgson
Bissett
McCreary
Lake Manitoba
Gimli
Pine Falls
Shoal Lake
Neepawa
Selkirk
Portage la Prairie
Virden
Brandon
Steinbach
Glenboro
Morris
Killarney
Deloraine
Morden
Emerson
Sprague
MAN 286
Province of Manitoba 1988
Cartography by: Surveys and Mapping Branch, Manitoba

I-1A

MANITOBA POPULATION

BY HEALTH & COMMUNITY SERVICES REGION 1982-1986

YEAR	1982(2)	1983(1)	1984(1)	1985(1)	1986(1)
REGION					
CENTRAL	89,983	89,409	90,045	90,372	90,678
EASTMAN	69,118	69,665	70,911	71,963	73,217
INTERLAKE	61,213	61,462	62,154	62,663	63,722
NORMAN	21,941	21,543	21,183	21,109	20,619
PARKLAND	45,128	45,001	44,704	44,430	43,828
THOMPSON	21,258	20,615	20,635	20,750	20,622
WESTMAN	117,993	118,105	118,760	118,558	117,885
WINNIPEG	601,064	603,536	610,391	617,599	622,150
INDIAN RES	47,039	47,613	48,636	49,993	51,439
UNORGANIZED TERRITORIES	11,372	11,340	11,344	11,323	11,425
TOTAL	1,086,109	1,088,289	1,098,763	1,108,760	1,115,585

SOURCE: (1) Manitoba Health Services Commission population records (June 1).
(2) December Preliminary MHSC population records.

I-1B

MANITOBA POPULATION

BY HEALTH & COMMUNITY SERVICES REGION 1982-1986

(INDIAN RES. & UNORGANIZED TERRITORY POPULATION ALLOCATED TO REGION)

YEAR / REGION	1982(2)	1983(1)	1984(1)	1985(1)	1986(1)
CENTRAL	93,807	93,292	94,021	94,471	94,930
EASTMAN	83,379	84,078	85,438	86,756	88,221
INTERLAKE	69,166	69,490	70,299	70,981	72,222
NORMAN	26,248	25,947	25,819	25,847	25,450
PARKLAND	51,237	51,096	50,846	50,622	50,084
THOMPSON	40,070	39,646	40,018	40,705	41,380
WESTMAN	121,138	121,204	121,931	121,779	121,148
WINNIPEG	601,064	603,536	610,391	617,599	622,150
TOTAL	1,086,109	1,088,289	1,098,763	1,108,760	1,115,585

SOURCE: (1) Manitoba Health Services Commission population records (June 1).
(2) December Preliminary MHSC population records.

I-2

WINNIPEG POPULATION

BY SUB-REGIONAL RESIDENCE AREAS 1982-1986

YEAR	1982(2)	1983(1)	1984(1)	1985(1)	1986(1)
WPG. REGION					
FT. GARRY	42,863	43,271	43,969	45,446	46,211
EAST & NORTH KILDONAN	66,679	67,283	68,273	68,936	69,038
OLD & WEST KILDONAN	41,555	42,177	43,170	44,396	45,257
ST. BONIFACE	44,721	44,044	44,018	43,849	43,871
ST. JAMES-ASSINIBOIA	81,915	81,861	82, 829	83,585	84,065
EAST ST. PAUL	3,244	3,262	3,309	3,416	3,652
WEST ST. PAUL	2,394	2,514	2,455	2,451	2,391
ST. VITAL	46,631	47,945	49,245	51,078	52,343
TRANSCONA	27,990	28,222	28,651	29,179	30,393
INNER CITY***	243,072	242,957	244,472	245,263	244,929
TOTAL	601,064	603,536	610,391	617,599	622,150

SOURCE: (1) Manitoba Health Services Commission population records (June 1).
(2) December Preliminary MHSC population records.

*** Winnipeg, Inner City, includes Charleswood and Tuxedo.

IV-1A-1

FEMALES BETWEEN 15-49

BY MANITOBA HEALTH & COMMUNITY SERVICES REGION 1982-1986

YEAR / REGION	1982(2)	1983(1)	1984(1)	1985(1)	1986(1)
CENTRAL	20,820	20,688	20,852	20,980	21,128
EASTMAN	16,841	17,008	17,303	17,682	18,012
INTERLAKE	14,633	14,692	14,885	15,024	15,343
NORMAN	5,639	5,535	5,465	5,486	5,393
PARKLAND	9,572	9,486	9,446	9,340	9,197
THOMPSON	6,000	5,825	5,912	5,946	6,009
WESTMAN	27,293	27,284	27,563	27,529	27,408
WINNIPEG	162,468	162,959	165,383	167,871	169,529
I.R. & U.T.	13,971	14,110	14,607	15,095	15,690
TOTAL	277,237	277,587	281,416	284,953	287,709

SOURCE: (1) Manitoba Health Services Commission population records (June 1).
(2) December Preliminary MHSC population records.

IV-1A-2

FEMALES BETWEEN 15-49

BY MANITOBA HEALTH & COMMUNITY SERVICES REGION 1982-1986
(INDIAN RES. & UNORGANIZED TERRITORY POPULATION
ALLOCATED TO REGION)

YEAR	1982(2)	1983(1)	1984(1)	1985(1)	1986(1)
REGION					
CENTRAL	21,737	21,623	21,832	21,983	22,196
EASTMAN	20,208	20,401	20,778	21,228	21,633
INTERLAKE	16,619	16,709	16,982	17,195	17,615
NORMAN	6,669	6,584	6,607	6,682	6,620
PARKLAND	11,008	10,897	10,903	10,834	10,740
THOMPSON	10,432	10,333	10,547	10,795	11,110
WESTMAN	28,096	28,081	28,384	28,365	28,266
WINNIPEG	162,468	162,959	165,383	167,871	169,529
TOTAL	277,237	277,587	281,416	284,953	287,709

SOURCE: (1) Manitoba Health Services Commission population records (June 1).
(2) December Preliminary MHSC population records.

IV-1B-1

TOTAL BIRTHS*

BY MANITOBA HEALTH & COMMUNITY SERVICES REGION 1982-1986

YEAR	1982	1983	1984	1985	1986
REGION					
CENTRAL	1,549	1,495	1,539	1,578	1,555
EASTMAN	1,203	1,168	1,077	1,181	1,157
INTERLAKE	753	851	863	845	904
NORMAN	409	423	382	379	359
PARKLAND	556	529	573	531	505
THOMPSON	461	462	476	485	457
WESTMAN	1,692	1,708	1,795	1,711	1,706
WINNIPEG	8,186	8,595	8,640	8,935	9,007
I.R. & U.T.	1,303	1,377	1,337	1,463	1,352
MANITOBA TOTAL	16,112	16,608	16,682	17,108	17,002
NON-RESIDENT	524	549	563	528	622
TOTAL	16,636	17,157	17,245	17,636	17,624

SOURCE: Manitoba Vital Statistics registrations.

* Total births are defined as live births plus stillbirths of 20 or more weeks gestation.

IV-1C-1

LIVE BIRTHS*

BY MANITOBA HEALTH & COMMUNITY SERVICES REGION 1982-1986

YEAR	1982	1983	1984	1985	1986
REGION					
CENTRAL	1,538	1,481	1,525	1,571	1,546
EASTMAN	1,196	1,165	1,076	1,176	1,151
INTERLAKE	749	848	859	840	897
NORMAN	406	419	379	376	358
PARKLAND	554	526	564	526	504
THOMPSON	458	460	475	481	455
WESTMAN	1,685	1,697	1,780	1,704	1,696
WINNIPEG	8,133	8,537	8,575	8,876	8,964
I.R. & U.T.	1,294	1,366	1,331	1,445	1,336
MANITOBA TOTAL	16,013	16,499	16,564	16,995	16,907
NON-RESIDENT	513	537	552	518	614
TOTAL	16,526	17,036	17,116	17,513	17,521

SOURCE: Manitoba Vital Statistics registrations.

* Infants born alive, excluding stillbirths.

IV-1D-1

GENERAL FERTILITY RATES*

BY MANITOBA HEALTH & COMMUNITY SERVICES REGION

AND FOR CANADA 1982-1986

YEAR	1982	1983	1984	1985	1986
REGION					
CENTRAL	73.9	71.6	73.1	74.9	73.2
EASTMAN	71.0	68.5	62.2	66.5	63.9
INTERLAKE	51.2	57.7	57.7	55.9	58.5
NORMAN	72.0	75.7	69.4	68.5	66.4
PARKLAND	57.9	55.5	59.7	56.3	54.8
THOMPSON	76.3	79.0	80.3	80.9	75.7
WESTMAN	61.7	62.2	64.6	61.9	61.9
WINNIPEG	50.1	52.4	51.8	52.9	52.9
I.R. & U.T.	92.6	96.8	91.1	95.7	85.1
MANITOBA TOTAL	57.8	59.4	58.9	59.6	58.7
CANADA	56.3	55.9	55.9	55.1	N/A

SOURCE: Canada, Statistics Canada, Vital Statistics: 1982, 1983, 1984, 1985. Volume 1, Births and Deaths (Cat. 84-204).

Manitoba, Manitoba Vital Statistics registrations. Manitoba Health Services population records.

* General fertility rate is defined as live births per 1,000 females between ages 15-49.

NOTE: Because of the size of Winnipeg's population, the effects of trends in other numerically smaller regions are not likely to influence the summary figure cited for the province.

INFANT DEATHS

IV-2A

INFANT DEATHS*

BY MANITOBA HEALTH & COMMUNITY SERVICES REGION 1982-1986

YEAR	1982	1983	1984	1985	1986
REGION					
CENTRAL	13	19	14	19	14
EASTMAN	10	14	8	9	9
INTERLAKE	4	5	5	9	4
NORMAN	2	6	3	3	4
PARKLAND	5	3	3	3	3
THOMPSON	3	6	3	7	3
WESTMAN	16	17	13	8	14
WINNIPEG	72	81	65	76	79
I.R. & U.T.	15	22	25	28	18
MANITOBA TOTAL	140	173	139	162	148
NON-RESIDENT	15	16	10	22	17
TOTAL	155	189	149	184	165

SOURCE: Manitoba Vital Statistics registrations.

* Infant deaths are defined as deaths under 1 year of age, excluding stillbirths.

NOTE: Infant deaths were uniformly up for all but one region in 1983. When perinatal losses are adjusted to compensate for an increase in lethal congenital anomalies, the rise in infant deaths has primarily occurred in the post-neonatal period.

IV-2B

INFANT DEATH RATES*

BY MANITOBA HEALTH & COMMUNITY SERVICES REGION

AND FOR CANADA 1982-1986

YEAR	1982	1983	1984	1985	1986
REGION					
CENTRAL	8.5	12.8	9.2	12.1	9.1
EASTMAN	8.4	12.0	7.4	7.7	7.8
INTERLAKE	5.3	5.9	5.8	10.7	4.5
NORMAN	**	14.3	7.9	8.0	11.2
PARKLAND	9.0	5.7	5.3	5.7	6.0
THOMPSON	6.6	13.0	6.3	14.6	6.6
WESTMAN	9.5	10.0	7.3	4.7	8.3
WINNIPEG	8.9	9.5	7.6	8.6	8.8
I.R. & U.T.	11.6	16.1	18.8	19.4	13.5
MANITOBA TOTAL	8.7	10.5	8.4	9.5	8.8
NON-RESIDENT	29.2	29.8	18.1	42.5	27.7
TOTAL	9.4	11.1	8.7	10.5	9.4
CANADA	9.1	8.5	8.1	7.9	N/A

SOURCE: Canada, Statistics Canada, Vital Statistics: 1982, 1983, 1984, 1985. Volume 1, Births and Deaths (Cat. 84-204).

Manitoba, Manitoba Vital Statistics registrations.

* Infant death rate is defined as deaths under 1 year of age, excluding stillbirths per 1,000 live births.

** Not calculated due to low incidence.

IV-3A

NEWBORN DEATHS*

BY MANITOBA HEALTH & COMMUNITY SERVICES REGION 1982-1986

YEAR	1982	1983	1984	1985	1986
REGION					
CENTRAL	8	12	7	11	10
EASTMAN	7	9	6	2	8
INTERLAKE	-	2	4	8	4
NORMAN	1	3	2	2	1
PARKLAND	4	2	2	2	-
THOMPSON	2	1	1	3	-
WESTMAN	6	13	9	5	9
WINNIPEG	48	49	31	43	48
I.R. & U.T.	6	12	12	9	9
MANITOBA TOTAL	82	103	74	85	89
NON-RESIDENT	7	7	7	15	9
TOTAL	89	110	81	100	98

SOURCE: Manitoba Vital Statistics registrations.

* Newborn deaths are defined as infant deaths from birth to less than 7 days of age.

IV-3B

NEWBORN DEATH RATES*

BY MANITOBA HEALTH & COMMUNITY SERVICES REGION

AND FOR CANADA 1982-1986

YEAR	1982	1983	1984	1985	1986
REGION					
CENTRAL	5.2	8.1	4.6	7.0	6.5
EASTMAN	5.9	7.7	5.6	**	7.0
INTERLAKE	-	**	4.7	9.5	4.5
NORMAN	**	7.2	**	**	**
PARKLAND	7.2	**	**	**	-
THOMPSON	**	**	**	6.2	-
WESTMAN	3.6	7.7	5.1	2.9	5.3
WINNIPEG	5.9	5.7	3.6	4.8	5.4
I.R. & U.T.	4.6	8.8	9.0	6.2	6.7
MANITOBA TOTAL	5.1	6.2	4.5	5.0	5.3
NON-RESIDENT	13.6	13.0	12.7	29.0	14.7
TOTAL	5.4	6.5	4.7	5.7	5.6
CANADA	5.0	4.7	4.3	4.4	N/A

SOURCE: Canada, Statistics Canada, Vital Statistics: 1982, 1983, 1984, 1985. Volume 1, Births and Deaths (Cat. 84-204).

Manitoba, Manitoba Vital Statistics registrations.

* Newborn death rate is defined as infant deaths from birth to less than 7 days of age per 1,000 live births.

** Not calculated due to low incidence.

IV-4A

PERINATAL DEATHS*

BY MANITOBA HEALTH & COMMUNITY SERVICES REGION 1982-1986

YEAR	1982	1983	1984	1985	1986
REGION					
CENTRAL	19	26	21	18	19
EASTMAN	14	12	7	7	14
INTERLAKE	4	5	8	13	11
NORMAN	4	7	5	5	2
PARKLAND	6	5	11	7	1
THOMPSON	5	3	2	7	2
WESTMAN	13	24	24	12	19
WINNIPEG	101	107	96	102	91
I.R. & U.T.	15	23	18	27	25
MANITOBA TOTAL	181	212	192	198	184
NON-RESIDENT	18	19	18	25	17
TOTAL	199	231	210	223	201

SOURCE: Manitoba Vital Statistics registrations.

* Perinatal deaths are defined as fetal deaths of 20 or more weeks gestation plus infant deaths under 7 days of age.

NOTE: (a) The College of Physicians and Surgeons of Manitoba use a definition of more than 500 gm to 7 days for perinatal death. This may account for any discrepencies between the two sets of figures.

(b) An increase in lethal congenital anomalies accounts for much of the change from 1982 to 1983 (Source: College of Physicians and Surgeons of Manitoba 1983 Perinatal and Maternal Welfare Report).

IV-4B

PERINATAL DEATH RATES*

BY MANITOBA HEALTH & COMMUNITY SERVICES REGION 1982-1986

YEAR / REGION	1982	1983	1984	1985	1986
CENTRAL	12.3	17.4	13.6	11.4	12.2
EASTMAN	11.6	10.3	6.5	5.9	12.1
INTERLAKE	5.3	5.9	9.3	15.4	12.2
NORMAN	9.8	16.5	13.1	13.2	**
PARKLAND	10.8	9.5	19.2	13.2	**
THOMPSON	10.8	6.5	**	14.4	**
WESTMAN	7.7	14.1	13.4	7.0	11.1
WINNIPEG	12.3	12.4	11.1	11.4	10.1
I.R. & U.T.	11.5	16.7	13.5	18.5	18.5
MANITOBA TOTAL	11.2	12.8	11.5	11.6	10.8
NON-RESIDENT	34.4	34.6	32.0	47.3	27.3
TOTAL	12.0	13.5	12.2	12.6	11.4

SOURCE: Manitoba Vital Statistics registrations.

* Perinatal death rate is defined as the total of fetal deaths of 20 or more weeks gestation and infant deaths under 7 days of age per 1,000 total births.

Total births are live births plus stillbirths of 20 or more weeks gestation.

** Not calculated due to low incidence.

IV-4C

PERINATAL DEATHS*

BY MANITOBA HEALTH & COMMUNITY SERVICES REGION 1982-1986

YEAR	1982	1983	1984	1985	1986
REGION					
CENTRAL	14	18	17	17	17
EASTMAN	12	12	7	5	14
INTERLAKE	2	5	7	10	9
NORMAN	2	6	4	4	1
PARKLAND	6	5	10	5	-
THOMPSON	4	3	2	7	2
WESTMAN	12	22	21	10	17
WINNIPEG	81	93	75	82	71
I.R. & U.T.	12	21	17	24	18
MANITOBA TOTAL	145	185	160	164	149
NON-RESIDENT	16	16	14	23	17
TOTAL	161	201	174	187	166

SOURCE: Manitoba Vital Statistics registrations.

* Perinatal deaths are defined as fetal deaths of 28 or more weeks gestation plus infant deaths under 7 days of age.

NOTE: (a) The College of Physicians and Surgeons of Manitoba use a definition of more than 1000 gm to 7 days for perinatal death. This may account for any discrepencies between the two sets of figures.

(b) An increase in lethal congenital anomalies accounts for much of the change from 1982 to 1983 (Source: College of Physicians and Surgeons of Manitoba 1983 Perinatal and Maternal Welfare Report).

IV-4D

PERINATAL DEATH RATES*

BY MANITOBA HEALTH & COMMUNITY SERVICES REGION

AND FOR CANADA 1982-1986

YEAR	1982	1983	1984	1985	1986
REGION					
CENTRAL	9.0	12.0	11.0	10.7	10.9
EASTMAN	10.0	10.3	6.5	4.2	12.1
INTERLAKE	**	5.9	8.1	11.8	10.0
NORMAN	**	14.2	10.5	10.5	**
PARKLAND	10.8	9.5	17.5	9.4	-
THOMPSON	8.7	6.5	**	14.3	**
WESTMAN	7.1	12.9	11.7	5.8	10.0
WINNIPEG	9.9	10.8	8.7	9.1	7.9
I.R. & U.T.	9.2	15.3	12.7	16.2	13.4
MANITOBA TOTAL	9.0	11.1	9.6	9.5	8.8
NON-RESIDENT	30.5	29.1	24.9	42.9	27.3
TOTAL	9.7	11.7	10.1	10.6	9.4
CANADA	10.1	9.5	8.7	8.7	N/A

SOURCE: Canada, Statistics Canada, Vital Statistics: 1982, 1983, 1984, 1985. Volume I, Births and Deaths (Cat. 84-204).

Manitoba, Manitoba Vital Statistics registrations.

* Perinatal death rate is defined as the total of fetal deaths of 28 or more weeks gestation and infant deaths under 7 days of age per 1,000 total births.

Total births are live births plus stillbirths of 28 or more weeks gestation.

** Not calculated due to low incidence.

IV-4E

STILLBIRTHS*

BY MANITOBA HEALTH & COMMUNITY SERVICES REGION 1982-1986

YEAR	1982	1983	1984	1985	1986
REGION					
CENTRAL	11	14	14	7	9
EASTMAN	7	3	1	5	6
INTERLAKE	4	3	4	5	7
NORMAN	3	4	3	3	1
PARKLAND	2	3	9	5	1
THOMPSON	3	2	1	4	2
WESTMAN	7	11	15	7	10
WINNIPEG	53	58	65	59	43
I.R. & U.T.	9	11	6	18	16
MANITOBA TOTAL	99	109	118	113	95
NON-RESIDENT	11	12	11	10	8
TOTAL	110	121	129	123	103

SOURCE: Manitoba Vital Statistics registrations.

* Stillbirths are defined as fetal deaths of 20 or more weeks gestation.

NOTE: The College of Physicians and Surgeons of Manitoba use a definition of more than 500 gm for stillbirth. This may account for any discrepancies between the two sets of figures.

IV-4F

STILLBIRTH RATIO*

BY MANITOBA HEALTH & COMMUNITY SERVICES REGION

AND FOR CANADA 1982-1986

YEAR	1982	1983	1984	1985	1986
REGION					
CENTRAL	7.2	9.5	9.2	4.5	5.8
EASTMAN	5.9	2.3	**	4.3	5.2
INTERLAKE	5.3	3.5	4.7	6.0	7.7
NORMAN	7.4	9.5	7.9	8.0	**
PARKLAND	**	5.7	16.0	9.5	**
THOMPSON	6.6	**	**	8.3	**
WESTMAN	4.2	6.5	8.4	4.1	5.9
WINNIPEG	6.5	6.8	7.6	6.6	4.8
I.R. & U.T.	7.0	8.1	4.5	12.5	12.0
MANITOBA TOTAL	6.2	6.6	7.1	6.6	5.6
NON-RESIDENT	21.4	22.3	19.9	19.3	13.0
TOTAL	6.7	7.1	7.5	7.0	5.9
CANADA	7.2	6.9	6.2	6.3	N/A

SOURCE: Canada, Statistics Canada, Vital Statistics: 1982, 1983, 1984, 1985. Volume I, Births and Deaths (Cat. 84-204).

Manitoba, Manitoba Vital Statistics registrations.

* Stillbirth ratio is defined as the number of fetal deaths of 20 or more weeks gestation per 1,000 live births.

** Not calculated due to low incidence.

IV-4G

STILLBIRTHS*

BY MANITOBA HEALTH & COMMUNITY SERVICES REGION 1982-1986

YEAR	1982	1983	1984	1985	1986
REGION					
CENTRAL	6	6	10	6	7
EASTMAN	5	3	1	3	6
INTERLAKE	2	3	3	2	5
NORMAN	1	3	2	2	-
PARKLAND	2	3	8	3	-
THOMPSON	2	2	1	4	2
WESTMAN	6	9	12	5	8
WINNIPEG	33	44	44	39	23
I.R. & U.T.	6	9	5	15	9
MANITOBA TOTAL	63	82	86	79	60
NON-RESIDENT	9	9	7	8	8
TOTAL	72	91	93	87	68

SOURCE: Manitoba Vital Statistics registrations.

* Stillbirths are defined as fetal deaths of 28 or more weeks gestation.

NOTE: The College of Physicians and Surgeons of Manitoba use a definition of more than 1000 gm for stillbirths. This may account for any discrepancies between the two sets of figures.

IV-4H

STILLBIRTH RATIO*

BY MANITOBA HEALTH & COMMUNITY SERVICES REGION

AND FOR CANADA 1982-1986

YEAR	1982	1983	1984	1985	1986
REGION					
CENTRAL	3.9	4.1	6.6	3.8	4.5
EASTMAN	4.2	2.6	**	2.6	5.2
INTERLAKE	**	3.5	3.5	**	5.6
NORMAN	**	7.2	**	**	-
PARKLAND	**	5.7	14.2	5.7	-
THOMPSON	**	**	**	8.3	**
WESTMAN	3.6	5.3	6.7	2.9	4.7
WINNIPEG	4.1	5.2	5.1	4.4	2.6
I.R. & U.T.	4.6	6.6	3.8	10.4	6.7
MANITOBA TOTAL	3.9	5.0	5.2	4.6	3.5
NON-RESIDENT	17.5	16.8	12.7	15.4	13.0
TOTAL	4.4	5.3	5.4	5.0	3.9
CANADA	5.1	4.9	4.4	4.3	N/A

SOURCE: Canada, Statistics Canada, Vital Statistics: 1982, 1983, 1984, 1985. Volume III, Deaths (Cat. 84-206).

Manitoba, Manitoba Vital Statistics registrations.

* Stillbirth ratio is defined as number of fetal deaths of 28 or more weeks gestation per 1,000 live births.

** Not calculated due to low incidence.

IV-5A

NEONATAL DEATHS*

BY MANITOBA HEALTH & COMMUNITY SERVICES REGION 1982-1986

YEAR	1982	1983	1984	1985	1986
REGION					
CENTRAL	10	12	7	12	10
EASTMAN	9	11	6	4	8
INTERLAKE	1	2	4	8	4
NORMAN	1	4	2	3	-
PARKLAND	5	3	3	2	1
THOMPSON	2	1	1	5	1
WESTMAN	9	14	9	6	9
WINNIPEG	58	56	38	54	57
I.R. & U.T.	10	12	14	13	9
MANITOBA TOTAL	105	115	84	107	99
NON-RESIDENT	11	11	8	18	11
TOTAL	116	126	92	125	110

SOURCE: Manitoba Vital Statistics registrations.

* Neonatal deaths are defined as infant deaths under 28 days of age, excluding stillbirths.

IV-5B

NEONATAL DEATH RATES*

BY MANITOBA HEALTH & COMMUNITY SERVICES REGION

AND FOR CANADA 1982-1986

YEAR	1982	1983	1984	1985	1986
REGION					
CENTRAL	6.5	8.1	4.6	7.6	6.5
EASTMAN	7.5	9.4	5.6	3.4	7.0
INTERLAKE	**	**	4.7	9.5	4.5
NORMAN	**	9.5	**	8.0	-
PARKLAND	9.0	5.7	5.3	**	**
THOMPSON	**	**	**	10.4	**
WESTMAN	5.3	8.2	5.1	3.5	5.3
WINNIPEG	7.1	6.6	4.4	6.1	6.4
I.R. & U.T.	7.7	8.8	10.5	9.0	6.7
MANITOBA TOTAL	6.6	7.0	5.1	6.3	5.9
NON-RESIDENT	21.4	20.5	14.5	34.7	17.9
TOTAL	7.1	7.4	5.4	7.1	6.3
CANADA	5.9	5.5	5.2	5.2	N/A

SOURCE: Canada, Statistics Canada, Vital Statistics: 1982, 1983, 1984, 1985. Volume I, Births and Deaths (Cat. 84-204).

Manitoba, Manitoba Vital Statistics registrations.

* Neonatal death rate is defined as number of infant deaths of under 28 days of age, excluding stillbirths, per 1,000 live births.

** Not calculated due to low incidence.

IV-6A

POST-NEONATAL DEATHS*

BY MANITOBA HEALTH & COMMUNITY SERVICES REGION 1982-1986

YEAR	1982	1983	1984	1985	1986
REGION					
CENTRAL	3	7	7	7	4
EASTMAN	1	3	2	5	1
INTERLAKE	3	3	1	1	-
NORMAN	1	2	1	-	3
PARKLAND	-	-	-	1	2
THOMPSON	1	5	2	2	3
WESTMAN	7	3	4	2	5
WINNIPEG	14	25	27	22	22
I.R. & U.T.	5	10	11	15	9
MANITOBA TOTAL	35	58	55	55	49
NON-RESIDENT	4	5	2	4	6
TOTAL	39	63	57	59	55

SOURCE: Manitoba Vital Statistics registrations.

* Post-neonatal deaths are defined as infant deaths from 28 days to under 1 year of age.

IV-6B

POST-NEONATAL DEATH RATES*

BY MANITOBA HEALTH & COMMUNITY SERVICES REGION

AND FOR CANADA 1982-1986

YEAR	1982	1983	1984	1985	1986
REGION					
CENTRAL	2.0	4.7	4.6	4.5	2.6
EASTMAN	**	2.6	**	4.3	**
INTERLAKE	4.0	3.5	**	**	-
NORMAN	**	**	**	-	8.4
PARKLAND	-	-	-	**	**
THOMPSON	**	10.9	**	**	6.6
WESTMAN	4.2	1.8	2.2	**	2.9
WINNIPEG	1.7	2.9	3.1	2.5	2.5
I.R. & U.T.	3.9	7.3	8.3	10.4	6.7
MANITOBA TOTAL	2.2	3.5	3.3	3.2	2.9
NON-RESIDENT	7.8	9.3	**	7.7	9.8
TOTAL	2.4	3.7	3.3	3.4	3.1
CANADA	3.1	3.0	3.0	2.7	N/A

SOURCE: Canada, Statistics Canada, Vital Statistics: 1982, 1983, 1984, 1985. Volume I, Births and Deaths (Cat. 84-206).

Manitoba, Manitoba Vital Statistics registrations.

* Post-neonatal death rate is defined as the number of infant deaths from 28 days to under 1 year of age per 1,000 live births.

** Not calculated due to low incidence.

IV-7A

MATERNAL DEATHS*

BY MANITOBA HEALTH & COMMUNITY SERVICES REGION 1982-1986

YEAR	1982	1983	1984	1985	1986
REGION					
CENTRAL	-	-	-	-	-
EASTMAN	-	-	-	-	-
INTERLAKE	-	-	-	-	-
NORMAN	-	-	-	-	-
PARKLAND	1	-	-	-	-
THOMPSON	-	-	-	-	-
WESTMAN	-	-	-	-	-
WINNIPEG	1	-	-	1	-
I.R. & U.T.	-	-	-	-	-
MANITOBA TOTAL	-	-	-	-	-
NON-RESIDENT	-	-	-	-	-
TOTAL	2	-	-	1	-

SOURCE: Manitoba Vital Statistics registrations.

* Maternal deaths are defined as deaths due to delivery and complications of pregnancy, childbirth, and the puerperium.

NOTE: Table IV-7B Maternal Death Rates has not been calculated due to low incidence of maternal deaths.

DEATHS UNDER ONE YEAR OF AGE

IV-8A

DEATHS UNDER ONE YEAR OF AGE

BY MANITOBA HEALTH & COMMUNITY SERVICES REGION 1986

MORTALITY GROUP / REGION	PERINATAL MORTALITY					POST-NEONATAL MORTALITY
	STILLBIRTH*	LESS THAN 1 DAY	1 TO LESS THAN 3 DAYS	3 TO LESS THAN 7 DAYS	7 TO LESS THAN 28 DAYS	28 DAYS TO LESS THAN 12 MONTHS
CENTRAL	9	6	4	-	-	4
EASTMAN	6	4	4	-	-	1
INTERLAKE	7	4	-	-	-	-
NORMAN	1	1	-	-	-	3
PARKLAND	1	-	-	-	1	2
THOMPSON	2	-	-	-	-	3
WESTMAN	10	5	3	1	-	5
WINNIPEG	43	27	15	6	9	22
I.R. & U.T.	16	6	2	1	-	9

SOURCE: Manitoba Vital Statistics registrations.

* Stillbirths are defined as fetal deaths of 20 or more weeks gestation.

NOTE: The College of Physicians and Surgeons of Manitoba use a definition of more than 500 gm for stillbirth and a definition of more than 500 gm to 7 days for perinatal death. This may account for any discrepancies between the two sets of figures.

IV-8B

DEATHS RATES* UNDER ONE YEAR OF AGE

BY MANITOBA HEALTH & COMMUNITY SERVICES REGION 1986

MORTALITY GROUP / REGION	[redacted]					POST-NEONATAL MORTALITY
	STILLBIRTH*	LESS THAN 1 DAY	1 TO LESS THAN 3 DAYS	3 TO LESS THAN 7 DAYS	7 TO LESS THAN 28 DAYS	28 DAYS TO LESS THAN 12 MONTHS
CENTRAL	5.8	3.9	2.6	-	-	2.6
EASTMAN	5.2	3.5	3.5	-	-	**
INTERLAKE	7.8	4.5	-	-	-	-
NORMAN	**	**	-	-	-	8.4
PARKLAND	**	-	-	-	**	**
THOMPSON	**	-	-	-	-	6.6
WESTMAN	5.9	2.9	1.8	**	-	2.9
WINNIPEG	4.8	3.0	1.7	0.7	1.0	2.5
I.R. & U.T.	12.0	4.5	**	**	-	6.7

SOURCE: Manitoba Vital Statistics registrations.

* All death rates are defined as the number per 1,000 live births. Stillbirths are defined as fetal deaths of 20 or more weeks gestation.

** Not calculated due to low incidence.

*** Non-residents excluded from calculation.

NEONATAL DEATHS*

BY CAUSE OF DEATH(1) AND MANITOBA HEALTH & COMMUNITY SERVICE REGION 1986

	LOWER RESPIRATORY	OTHER RESPIRATORY	IMMATURITY	CONGENITAL ANOMALIES	BIRTH INJURY	GASTRO-INTESTINAL	SUDDEN INFANT DEATH	OTHER PERINATAL CAUSES	OTHER(2) CAUSES	REGIONAL TOTAL
CENTRAL	-	1	2	3	-	-	-	-	4	10
EASTMAN	-	1	1	3	1	-	-	-	2	8
INTERLAKE	-	1	-	2	-	-	-	-	1	4
NORMAN	-	-	-	1	-	-	-	-	-	1
PARKLAND	-	1	-	-	-	-	-	-	-	1
THOMPSON	-	-	-	-	-	-	-	-	-	-
WESTMAN	-	2	-	3	-	-	-	2	2	9
WINNIPEG	-	12	-	25	1	-	1	2	16	57
I.R. & U.T.	-	1	1	4	-	-	-	1	2	9
MANITOBA TOTAL	-	19	4	41	2	-	1	5	27	99
OTHER	-	2	-	5	-	-	-	-	4	11
TOTAL	-	21	4	46	2	-	1	5	31	110

SOURCE: Manitoba Vital Statistics registrations.

* Neonatal deaths are defined as infant deaths under 28 days of age, excluding stillbirths.

(1) Cause of death has been aggregated from the Manual of the International Statistical Classification of Diseases, Injuries, and Causes of Death (Ninth Revision), World Health Organization, Volume 1, 1977 as follows: Lower Respiratory (480-483, 485-492); Other Respiratory (768, 769, 770); Immaturity (765); Congenital Anomalies (740-759); Birth Injury (767); Gastro-Intestinal (004-009, 535, 555, 556, 558, 562, 564, 565, 566, 567.2, 567.9, 568, 569); Sudden Infant Death (798.0); Other Perinatal Causes (760, 761, 762).

(2) Other causes include deaths from all causes not listed above. For example, deaths from injuries and infections would be coded here.

IV-9B

NEONATAL DEATH RATES*

BY CAUSE OF DEATH(1) AND MANITOBA HEALTH & COMMUNITY SERVICES REGION 1986

	LOWER RESPIRATORY	OTHER RESPIRATORY	IMMATURITY	CONGENITAL ANOMALIES	BIRTH INJURY	GASTRO-INTESTINAL	SUDDEN INFANT DEATH	OTHER PERINATAL CAUSES	OTHER(2) CAUSES	REGIONAL TOTAL
CENTRAL	-	**	**	19.4	-	-	-	-	25.9	64.7
EASTMAN	-	**	**	26.1	**	-	-	-	**	69.5
INTERLAKE	-	**	-	**	-	-	-	-	**	44.6
NORMAN	-	-	-	**	-	-	-	-	-	**
PARKLAND	-	**	-	-	-	-	-	-	-	**
THOMPSON	-	-	-	-	-	-	-	-	-	-
WESTMAN	-	**	-	17.7	-	-	-	**	**	53.1
WINNIPEG	-	13.4	-	27.9	**	-	**	**	17.8	63.6
I.R. & U.T.	-	**	**	29.9	-	-	-	**	**	67.4
MANITOBA TOTAL	-	11.2	2.4	24.3	**	-	**	3.0	16.0	58.6
OTHER	-	**	-	81.4	-	-	-	-	77.2	179.2
TOTAL	-	11.2	2.3	26.3	**	-	**	2.9	17.7	62.8

SOURCE: Manitoba Vital Statistics registrations.

(1) Cause of death has been aggregated from the Manual of the International Statistical Classification of Diseases, Injuries, and Causes of Death (Ninth Revision), World Health Organization, Volume 1, 1977 as follows: Lower Respiratory (480-483, 485-492); Other Respiratory (768, 769, 770); Immaturity (765); Congenital Anomalies (740-759); Birth Injury (767); Gastro-Intestinal (004-009, 535, 555, 556, 558, 562, 564, 565, 566, 567.2, 567.9, 568, 569); Sudden Infant Death (798.0); Other Perinatal Causes (760, 761, 762).

(2) Other causes include deaths from all causes not listed above. For example, deaths from injuries and infections would be coded here.

* For this table neonatal deaths are defined as infant deaths under 28 days of age, per 10,000 live births.

** Not calculated due to low incidence.

IV-10A

POST-NEONATAL DEATHS*

BY CAUSE OF DEATH(1) AND MANITOBA HEALTH & COMMUNITY SERVICES REGION 1986

	LOWER RESPIRATORY	OTHER RESPIRATORY	IMMATURITY	CONGENITAL ANOMALIES	SUDDEN BIRTH INJURY	GASTRO-INTESTINAL	INFANT DEATH	OTHER(2) CAUSES	REGIONAL TOTAL
CENTRAL	-	-	-	-	-	-	1	3	4
EASTMAN	-	-	-	-	-	-	-	1	1
INTERLAKE	-	-	-	-	-	-	-	-	-
NORMAN	-	-	-	1	-	-	1	1	3
PARKLAND	-	-	-	1	-	-	1	-	2
THOMPSON	-	-	-	2	-	-	-	1	3
WESTMAN	-	-	-	1	-	-	2	2	5
WINNIPEG	-	2	-	2	-	-	6	12	22
I.R. & U.T.	-	-	-	1	-	-	3	5	9
MANITOBA TOTAL	-	2	-	8	-	-	14	25	49
OTHER	-	1	-	2	-	-	1	2	6
TOTAL	-	3	-	10	-	-	15	27	55

SOURCE: Manitoba Vital Statistics registrations.

(1) Cause of death has been aggregated from the Manual of the International Statistical Classification of Diseases, Injuries, and Causes of Death (Ninth Revision), World Health Organization, Volume 1, 1977 as follows: Lower Respiratory (480-483, 485-492); Other Respiratory (768, 769, 770); Congenital Anomalies (740-759); Birth Injury (767); Gastro-Intestinal (004-009, 535, 555, 556, 558, 562, 564, 565, 566, 567.2, 567.9, 568, 569); Sudden Infant Death (798.0).

(2) Other causes include deaths from all causes not listed above. For example, deaths from injuries and infections would be coded here.

* Post-neonatal deaths are defined as infant deaths from 28 days to under 1 year of age.

IV-10B

POST-NEONATAL DEATH RATES*

BY CAUSE OF DEATH(1) AND MANITOBA HEALTH & COMMUNITY SERVICES REGION 1986

	LOWER RESPIRATORY	OTHER RESPIRATORY	IMMATURITY	CONGENITAL ANOMALIES	BIRTH INJURY	GASTRO-INTESTINAL	SUDDEN INFANT DEATH	OTHER(2) CAUSES	REGIONAL TOTAL
CENTRAL	-	-	-	-	-	-	**	19.4	25.9
EASTMAN	-	-	-	-	-	-	-	**	**
INTERLAKE	-	-	-	-	-	-	-	-	-
NORMAN	-	-	-	**	-	-	**	**	83.8
PARKLAND	-	-	-	**	-	-	**	-	**
THOMPSON	-	-	-	**	-	-	-	**	65.9
WESTMAN	-	-	-	**	-	-	**	**	29.5
WINNIPEG	-	**	-	**	-	-	6.7	13.4	24.5
I.R. & U.T.	-	-	-	**	-	-	22.5	37.4	67.4
MANITOBA TOTAL	-	**	-	4.7	-	-	8.3	14.8	29.0
OTHER	-	**	-	**	-	-	**	**	97.7
TOTAL	-	1.7	-	5.7	-	-	8.6	16.0	31.4

SOURCE: Manitoba Vital Statistics registrations.

(1) Cause of death has been aggregated from the Manual of the International Statistical Classification of Diseases, Injuries, and Causes of Death (Ninth Revision), World Health Organization, Volume 1, 1977 as follows: Lower Respiratory (480-483, 485-492); Other Respiratory (768, 769, 770); Congenital Anomalies (740-759); Birth Injury (767); Gastro-Intestinal (004-009, 535, 555, 556, 558, 562, 564, 565, 566, 567.2, 567.9, 568, 569); Sudden Infant Death (798.0).

(2) Other causes include deaths from all causes not listed above. For example, deaths from injuries and infections would be coded here.

* For this table, post-neonatal death rate is defined as infant deaths from 28 days to under 1 year of age per 10,000 live births.

** Not calculated due to low incidence.

V-1A

FEMALES BETWEEN 15–49 YEARS OF AGE

WINNIPEG REGION 1982-1986

WINNIPEG REGION	1982(2)	1983(1)	1984(1)	1985(1)	1986(2)
FT. GARRY	12,605	12,696	12,863	13,370	13,680
EAST & NORTH KILDONAN	18,252	18,408	18,690	18,742	18,805
OLD & WEST KILDONAN	11,245	11,381	11,667	12,059	12,319
ST. BONIFACE	11,935	11,771	11,816	11,737	11,798
ST. JAMES	22,630	22,503	22,800	23,016	23,088
EAST & WEST ST. PAUL	1,423	1,486	1,507	1,540	1,616
ST. VITAL	13,179	13,553	14,047	14,558	15,039
TRANSCONA	7,734	7,804	7,959	8,147	8,474
INNER CITY***	63,465	63,357	64,037	64,702	64,710
WINNIPEG TOTAL	162,468	162,959	165,383	167,871	169,529

SOURCE: (1) Manitoba Health Services Commission population records (June 1).
(2) December 1 preliminary MHSC population records.

*** Winnipeg, Inner City, includes Charleswood and Tuxedo.

V-1B

GENERAL FERTILITY RATES*

WINNIPEG REGION 1982-1986

WINNIPEG REGION	1982(2)	1983(1)	1984(1)	1985(1)	1986(1)
FT. GARRY	51.4	51.5	52.4	50.9	53.0
EAST & NORTH KILDONAN	52.9	51.6	54.8	51.6	49.2
OLD & WEST KILDONAN	47.5	46.4	51.3	48.8	45.3
ST. BONIFACE	39.5	44.2	42.4	41.6	46.3
ST. JAMES	34.7	34.9	33.1	35.6	34.7
EAST & WEST ST. PAUL	45.0	47.8	27.9	41.6	43.9
ST. VITAL	57.2	58.1	57.5	57.6	53.0
TRANSCONA	37.2	40.5	44.7	50.7	54.4
INNER CITY***	57.5	60.4	60.3	62.1	63.0
WINNIPEG TOTAL	50.1	52.5	51.8	52.9	52.9

SOURCE: (1) Manitoba Health Services Commission population records (June 1).
(2) December 1 preliminary MHSC population records.

* General fertility rate is defined as number of live births per 1,000 females between ages 15-49.

*** Winnipeg, Inner City, includes Charleswood and Tuxedo.

V-1C

LIVE BIRTHS*

WINNIPEG REGION 1982-1986

WINNIPEG REGION	1982	1983	1984	1985	1986
CHARLESWOOD-TUXEDO	606	633	631	608	657
FT. GARRY	648	654	674	681	725
EAST & NORTH KILDONAN	942	1,008	970	967	926
OLD & WEST KILDONAN	534	528	598	588	558
ST. BONIFACE	472	520	501	488	546
ST. JAMES	785	785	755	819	800
EAST & WEST ST. PAUL	64	71	42	64	71
ST. VITAL	754	788	808	838	797
TRANSCONA	288	316	356	413	461
INNER CITY	3,041	3,253	3,231	3,409	3,419
WINNIPEG TOTAL	8,134	8,556	8,566	8,875	8,960

SOURCE: Manitoba Vital Statistics registrations.

* Live births are defined as infants born alive, excluding stillbirths.

V-1D

TOTAL BIRTHS*

WINNIPEG REGION 1982-1986

WINNIPEG REGION	1982	1983	1984	1985	1986
CHARLESWOOD-TUXEDO	607	635	638	612	659
FT. GARRY	648	659	674	684	728
EAST & NORTH KILDONAN	946	1,011	973	972	932
OLD & WEST KILDONAN	538	530	605	592	558
ST. BONIFACE	473	523	505	489	548
ST. JAMES	793	791	765	823	803
EAST & WEST ST. PAUL	64	71	42	64	71
ST. VITAL	759	795	810	843	800
TRANSCONA	291	322	357	414	462
INNER CITY	3,068	3,277	3,262	3,441	3,442
WINNIPEG TOTAL	8,187	8,614	8,631	8,934	9,003

SOURCE: Manitoba Vital Statistics registrations.

* Total births are defined as live births plus stillbirths of 20 or more weeks gestation.

NOTE: Totals may differ from those for Winnipeg Region in Part IV due to variation between Winnipeg coded as a Manitoba region and the coding of separate areas within Winnipeg.

V-2A

INFANT DEATHS*

WINNIPEG REGION 1982-1986

WINNIPEG REGION	1982	1983	1984	1985	1986
CHARLESWOOD-TUXEDO	7	5	2	7	6
FT. GARRY	3	7	3	5	6
EAST & NORTH KILDONAN	8	6	4	8	8
OLD & WEST KILDONAN	5	4	4	2	6
ST. BONIFACE	5	7	4	5	9
ST. JAMES	7	9	-	3	3
EAST & WEST ST. PAUL	-	1	-	-	1
ST. VITAL	5	8	12	9	8
TRANSCONA	1	3	1	1	1
INNER CITY	31	31	35	36	31
WINNIPEG TOTAL	72	81	65	76	79

SOURCE: Manitoba Vital Statistics registrations.

* Infant deaths are defined as deaths under 1 year of age excluding still-births.

V-2B

INFANT DEATH RATES*

WINNIPEG REGION 1982-1986

WINNIPEG REGION	1982	1983	1984	1985	1986
CHARLESWOOD-TUXEDO	11.6	7.9	**	11.5	9.1
FT. GARRY	4.6	10.7	4.5	7.3	8.3
EAST & NORTH KILDONAN	8.5	6.0	4.1	8.3	8.6
OLD & WEST KILDONAN	9.4	7.6	6.7	**	10.8
ST. BONIFACE	10.6	13.5	8.0	10.2	16.5
ST. JAMES	8.9	11.5	-	3.7	3.8
EAST & WEST ST. PAUL	-	**	-	-	**
ST. VITAL	6.6	10.2	14.9	10.7	10.0
TRANSCONA	**	9.5	**	**	**
INNER CITY	10.2	9.5	10.8	10.6	9.1
WINNIPEG TOTAL	8.9	9.5	7.6	8.6	8.8

SOURCE: Manitoba Vital Statistics registrations.

* Infant death rate is defined as number of deaths under 1 year of age, excluding stillbirths, per 1,000 live births.

** Not calculated due to low incidence.

NOTE: Totals may differ from those for Winnipeg Region in Part IV due to variation between Winnipeg coded as a Manitoba region and the coding of separate areas within Winnipeg.

V-3A

NEWBORN DEATHS*

WINNIPEG REGION 1982-1986

WINNIPEG REGION	1982	1983	1984	1985	1986
CHARLESWOOD-TUXEDO	4	1	2	5	3
FT. GARRY	3	6	2	4	5
EAST & NORTH KILDONAN	7	5	4	7	3
OLD & WEST KILDONAN	3	2	3	1	4
ST. BONIFACE	3	5	2	-	7
ST. JAMES	7	6	-	2	2
EAST & WEST ST. PAUL	-	-	-	-	1
ST. VITAL	3	5	7	7	7
TRANSCONA	-	2	1	-	-
INNER CITY	18	17	10	17	16
WINNIPEG TOTAL	48	49	31	43	48

SOURCE: Manitoba Vital Statistics registrations.

* Newborn deaths are defined as infant deaths from birth to less than 7 days of age.

V-3B

NEWBORN DEATH RATES*

WINNIPEG REGION 1982-1986

WINNIPEG REGION	1982	1983	1984	1985	1986
CHARLESWOOD-TUXEDO	6.6	**	**	8.2	4.6
FT. GARRY	4.6	9.2	**	5.9	6.9
EAST & NORTH KILDONAN	7.4	5.0	4.1	7.2	3.2
OLD & WEST KILDONAN	5.6	**	5.0	**	7.2
ST. BONIFACE	6.4	9.6	**	-	12.8
ST. JAMES	8.9	7.6	-	**	**
EAST & WEST ST. PAUL	-	-	-	-	**
ST. VITAL	4.0	6.3	8.7	8.4	8.8
TRANSCONA	-	**	**	-	-
INNER CITY	5.9	5.2	3.1	5.0	4.7
WINNIPEG TOTAL	5.9	5.7	3.6	4.8	5.4

SOURCE: Manitoba Vital Statistics registrations.

* Newborn death rate is defined as the number of infant deaths from birth to less than 7 days of age per 1,000 live births.

** Not calculated due to low incidence.

NOTE: Totals may differ from those for Winnipeg Region in Part IV due to variation between Winnipeg coded as a Manitoba region and the coding of separate areas within Winnipeg.

V-4A

PERINATAL DEATHS*

WINNIPEG REGION 1982-1986

WINNIPEG REGION	1982	1983	1984	1985	1986
CHARLESWOOD-TUXEDO	5	3	9	9	5
FT. GARRY	3	11	2	7	8
EAST & NORTH KILDONAN	11	8	7	12	9
OLD & WEST KILDONAN	7	4	10	5	4
ST. BONIFACE	4	8	6	1	9
ST. JAMES	15	12	10	6	5
EAST & WEST ST. PAUL	-	-	-	-	1
ST. VITAL	8	12	9	12	10
TRANSCONA	3	8	2	1	1
INNER CITY	45	41	41	49	39
WINNIPEG TOTAL	101	107	96	102	91

SOURCE: Manitoba Vital Statistics registrations.

* Perinatal deaths are defined as fetal deaths of 20 or more weeks gestation plus infant deaths under 7 days of age.

V-4B

PERINATAL DEATH RATES*

WINNIPEG REGION 1982-1986

WINNIPEG REGION	1982	1983	1984	1985	1986
CHARLESWOOD-TUXEDO	8.2	4.7	14.1	14.7	7.6
FT. GARRY	4.6	16.7	**	10.2	11.0
EAST & NORTH KILDONAN	11.6	7.9	7.2	12.3	9.7
OLD & WEST KILDONAN	13.0	7.5	16.5	8.4	7.2
ST. BONIFACE	8.5	15.3	11.9	**	16.4
ST. JAMES	18.9	15.2	13.1	7.3	6.2
EAST & WEST ST. PAUL	-	-	-	-	**
ST. VITAL	10.5	15.1	11.1	14.2	12.5
TRANSCONA	10.3	24.8	**	**	**
INNER CITY	14.7	12.5	12.6	14.2	11.3
WINNIPEG TOTAL	12.3	12.4	11.1	11.4	10.1

SOURCE: Manitoba Vital Statistics registrations.

* Perinatal death rate is defined as fetal deaths of 20 or more weeks gestation plus infant deaths under 7 days of age per 1,000 total births. Total births are defined as live births plus stillbirths of 20 or more weeks gestation.

** Not calculated due to low incidence.

NOTE: Totals may differ from those for Winnipeg Region in Part IV due to variation between Winnipeg coded as a Manitoba region and the coding of the separate areas within Winnipeg.

V-4C

PERINATAL DEATHS*

WINNIPEG REGION 1982-1986

WINNIPEG REGION	1982	1983	1984	1985	1986
CHARLESWOOD-TUXEDO	4	2	7	7	4
FT. GARRY	3	10	2	5	5
EAST & NORTH KILDONAN	10	8	7	12	5
OLD & WEST KILDONAN	6	3	8	5	4
ST. BONIFACE	3	7	6	1	8
ST. JAMES	11	11	6	6	5
EAST & WEST ST. PAUL	-	-	-	-	1
ST. VITAL	7	9	9	12	10
TRANSCONA	3	7	2	-	1
INNER CITY	34	36	28	34	28
WINNIPEG TOTAL	81	93	75	82	71

SOURCE: Manitoba Vital Statistics registrations.

* Perinatal deaths are defined as fetal deaths of 28 or more weeks gestation plus infant deaths under 7 days of age.

V-4D

PERINATAL DEATH RATES*

WINNIPEG REGION 1982-1986

WINNIPEG REGION	1982	1983	1984	1985	1986
CHARLESWOOD-TUXEDO	6.6	**	11.0	11.5	6.1
FT. GARRY	4.6	15.2	**	7.3	6.9
EAST & NORTH KILDONAN	10.6	7.9	7.2	12.3	5.4
OLD & WEST KILDONAN	11.2	5.7	13.2	8.4	7.2
ST. BONIFACE	6.3	13.4	11.9	**	14.6
ST. JAMES	13.9	13.9	7.8	7.3	6.2
EAST & WEST ST. PAUL	-	-	-	-	**
ST. VITAL	9.2	11.3	11.1	14.3	12.5
TRANSCONA	10.3	21.7	**	-	**
INNER CITY	11.1	11.0	8.6	9.9	8.2
WINNIPEG TOTAL	9.9	10.0	8.7	9.2	7.9

SOURCE: Manitoba Vital Statistics registrations.

* Perinatal death rate is defined as fetal deaths of 28 or more weeks gestation plus infant deaths under 7 days of age per 1,000 total births. Total births are defined as live births plus stillbirths of 28 or more weeks gestation.

** Not calculated due to low incidence.

NOTE: Totals may differ from those for Winnipeg Region in Part IV due to variation between Winnipeg coded as a Manitoba region and the coding of separate areas within Winnipeg.

V-4E

STILLBIRTHS*

WINNIPEG REGION 1982-1986

WINNIPEG REGION	1982	1983	1984	1985	1986
CHARLESWOOD-TUXEDO	1	2	7	4	2
FT. GARRY	-	5	-	3	3
EAST & NORTH KILDONAN	4	3	3	5	6
OLD & WEST KILDONAN	4	2	7	4	-
ST. BONIFACE	1	3	4	1	2
ST. JAMES	8	6	10	4	3
EAST & WEST ST. PAUL	-	-	-	-	-
ST. VITAL	5	7	2	5	3
TRANSCONA	3	6	1	1	1
INNER CITY	27	24	31	32	23
WINNIPEG TOTAL	53	58	65	59	43

SOURCE: Manitoba Vital Statistics registrations.

* Stillbirths are defined as fetal deaths of 20 or more weeks gestation.

V-4F

STILLBIRTH RATIO*

WINNIPEG REGION 1982-1986

WINNIPEG REGION	1982	1983	1984	1985	1986
CHARLESWOOD-TUXEDO	**	**	11.1	6.6	**
FT. GARRY	-	7.6	-	4.4	4.1
EAST & NORTH KILDONAN	4.2	3.0	3.1	5.2	6.5
OLD & WEST KILDONAN	7.5	**	11.7	6.8	-
ST. BONIFACE	**	5.8	8.0	**	**
ST. JAMES	10.2	7.6	13.2	4.9	3.8
EAST & WEST ST. PAUL	-	-	-	-	-
ST. VITAL	6.6	8.9	**	6.0	3.8
TRANSCONA	10.4	19.0	**	**	**
INNER CITY	8.9	7.4	9.6	9.4	6.7
WINNIPEG TOTAL	6.5	6.8	7.6	6.6	4.8

SOURCE: Manitoba Vital Statistics registrations.

* Stillbirth ratio is defined as fetal deaths of 20 or more weeks gestation per 1,000 live births.

** Not calculated due to low incidence.

NOTE: Totals may differ from those for Winnipeg Region in Part IV due to variation between Winnipeg coded as a Manitoba region and the coding of separate areas within Winnipeg.

V-4G

STILLBIRTHS*

WINNIPEG REGION 1982-1986

WINNIPEG REGION	1982	1983	1984	1985	1986
CHARLESWOOD-TUXEDO	-	1	5	2	1
FT. GARRY	-	4	-	1	-
EAST & NORTH KILDONAN	3	3	3	5	2
OLD & WEST KILDONAN	3	1	5	4	-
ST. BONIFACE	-	2	4	1	1
ST. JAMES	4	5	6	4	3
EAST & WEST ST. PAUL	-	-	-	-	-
ST. VITAL	4	4	2	5	3
TRANSCONA	3	5	1	-	1
INNER CITY	16	19	18	17	12
WINNIPEG TOTAL	33	44	44	39	23

SOURCE: Manitoba Vital Statistics registrations.

* Stillbirths are defined as fetal deaths of 28 or more weeks gestation.

V-4H

STILLBIRTH RATIO*

WINNIPEG REGION 1982-1986

WINNIPEG REGION	1982	1983	1984	1985	1986
CHARLESWOOD-TUXEDO	-	**	7.9	**	**
FT. GARRY	-	6.1	-	**	-
EAST & NORTH KILDONAN	3.2	3.0	3.1	5.2	**
OLD & WEST KILDONAN	5.6	**	8.4	6.8	-
ST. BONIFACE	-	**	8.0	**	**
ST. JAMES	5.1	6.4	7.9	4.9	3.8
EAST & WEST ST. PAUL	-	-	-	-	-
ST. VITAL	5.3	5.1	**	6.0	3.8
TRANSCONA	10.4	15.8	**	-	**
INNER CITY	5.3	5.8	5.6	5.0	3.5
WINNIPEG TOTAL	4.1	5.1	5.1	4.4	2.6

SOURCE: Manitoba Vital Statistics registrations.

* Stillbirth ratio is defined as fetal deaths of 28 or more weeks gestation per 1,000 live births.

** Not calculated due to low incidence.

NOTE: Totals may differ from those for Winnipeg Region in Part IV due to variation between Winnipeg coded as a Manitoba region and the coding of separate areas within Winnipeg.

V-5A

NEONATAL DEATHS*

WINNIPEG REGION 1982-1986

WINNIPEG REGION	1982	1983	1984	1985	1986
CHARLESWOOD-TUXEDO	5	2	2	6	4
FT. GARRY	3	6	2	4	6
EAST & NORTH KILDONAN	7	5	4	7	4
OLD & WEST KILDONAN	4	2	4	1	4
ST. BONIFACE	4	6	2	1	8
ST. JAMES	7	6	-	2	2
EAST & WEST ST. PAUL	-	-	-	-	1
ST. VITAL	4	5	7	8	8
TRANSCONA	-	2	1	-	-
INNER CITY	24	22	16	25	20
WINNIPEG TOTAL	58	56	38	54	57

SOURCE: Manitoba Vital Statistics registrations.

* Neonatal deaths are defined as infant deaths under 28 days of age, excluding stillbirths.

V-5B

NEONATAL DEATH RATES*

WINNIPEG REGION 1982-1986

WINNIPEG REGION	1982	1983	1984	1985	1986
CHARLESWOOD-TUXEDO	8.3	**	**	10.0	6.1
FT. GARRY	4.6	9.2	**	5.9	8.3
EAST & NORTH KILDONAN	7.4	5.0	4.1	7.2	4.3
OLD & WEST KILDONAN	7.5	**	6.7	**	7.2
ST. BONIFACE	8.5	11.5	**	**	14.7
ST. JAMES	8.9	7.6	-	**	**
EAST & WEST ST. PAUL	-	-	-	-	**
ST. VITAL	5.3	6.3	8.7	9.5	10.0
TRANSCONA	-	**	**	-	-
INNER CITY	7.9	6.8	5.0	7.3	5.8
WINNIPEG TOTAL	7.1	6.5	4.4	6.1	6.4

SOURCE: Manitoba Vital Statistics registrations.

* Neonatal death rate is defined as infant deaths under 28 days of age, excluding stillbirths, per 1,000 live births.

** Not calculated due to low incidence.

NOTE: Totals may differ from Winnipeg Region in Part IV due to variation between Winnipeg coded as a Manitoba region and the coding of separate areas within Winnipeg.

V-6A

POST-NEONATAL DEATHS*

WINNIPEG REGION 1982-1986

WINNIPEG REGION	1982	1983	1984	1985	1986
CHARLESWOOD-TUXEDO	2	3	-	1	2
FT. GARRY	-	1	1	1	-
EAST & NORTH KILDONAN	1	1	-	1	4
OLD & WEST KILDONAN	1	2	-	1	2
ST. BONIFACE	1	1	2	4	1
ST. JAMES	-	3	-	1	1
EAST & WEST ST. PAUL	-	1	-	-	-
ST. VITAL	1	3	5	1	-
TRANSCONA	1	1	-	1	1
INNER CITY	7	9	19	11	11
WINNIPEG TOTAL	14	25	27	22	22

SOURCE: Manitoba Vital Statistics registrations.

* Post-neonatal deaths are defined as infant deaths from 28 days to under 1 year of age.

V-6B

POST-NEONATAL DEATH RATES*

WINNIPEG REGION 1982-1986

WINNIPEG REGION	1982	1983	1984	1985	1986
CHARLESWOOD-TUXEDO	**	4.7	-	**	**
FT. GARRY	-	**	**	**	-
EAST & NORTH KILDONAN	**	**	-	**	4.3
OLD & WEST KILDONAN	**	**	-	**	**
ST. BONIFACE	**	**	**	8.2	**
ST. JAMES	-	3.8	-	**	**
EAST & WEST ST. PAUL	-	**	-	-	-
ST. VITAL	**	3.8	6.2	**	-
TRANSCONA	**	**	-	**	**
INNER CITY	2.3	2.8	5.9	3.2	3.2
WINNIPEG TOTAL	1.7	2.9	3.2	2.5	2.5

SOURCE: Manitoba Vital Statistics registrations.

* Post-neonatal death rate is defined as infant deaths from 28 days to under 1 year of age per 1,000 live births.

** Not calculated due to low incidence.

NOTE: Totals may differ from those for Winnipeg Region in Part IV due to variation between Winnipeg coded as a Manitoba region and the coding of separate areas within Winnipeg.

V-7

POST-NEONATAL DEATHS* BY CAUSE(1)

AND WINNIPEG AREA 1986

	LOWER RESPIRATORY	OTHER RESPIRATORY	CONGENITAL ANOMALIES	BIRTH INJURY	GASTRO-INTESTINAL	SUDDEN INFANT DEATH	OTHER(2) CAUSES	TOTAL
CHARLESWOOD-TUXEDO	-	-	1	-	-	-	1	2
FT. GARRY	-	-	-	-	-	-	-	-
EAST & NORTH KILDONAN	-	1	-	-	-	2	1	4
OLD & WEST KILDONAN	-	1	-	-	-	-	1	2
ST. BONIFACE	-	-	-	-	-	-	1	1
ST. JAMES	-	-	-	-	-	1	-	1
EAST & WEST ST. PAUL	-	-	-	-	-	-	-	-
ST. VITAL	-	-	-	-	-	-	-	-
TRANSCONA	-	-	-	-	-	1	-	1
INNER CITY	-	-	1	-	-	4	6	11
TOTAL	-	2	2	-	-	8	10	22

SOURCE: Manitoba Vital Statistics registrations.

(1) Cause of death has been aggregated from the Manual of the International Statistical Classification of Diseases, Injuries, and Causes of Death (Ninth Revision), World Health Organization, Volume 1, 1977 as follows: Lower Respiratory (480-483, 485-492); Other Respiratory (768, 769, 770); Congenital Anomalies (740-759); Birth Injury (767); Gastro-Intestinal (004-009, 535, 555, 556, 558, 562, 564, 565, 566, 567.2, 567.9, 568, 569); Sudden Infant Death (798.0).

(2) Other causes include death from all causes not listed above. For example, death from injuries and infections would be coded here.

* Post-neonatal deaths are defined as infant deaths from 28 days to under 1 year of age.

V-8A

DEATHS UNDER 1 YEAR OF AGE BY WINNIPEG AREAS AND BY

SELECTED AGES 1986

	LESS THAN 1 DAY	1 TO LESS THAN 3 DAYS	3 TO LESS THAN 7 DAYS	7 TO LESS THAN 15 DAYS	15 TO LESS THAN 28 DAYS	28 DAYS TO LESS THAN 3 MONTHS	3 MONTHS TO LESS THAN 6 MONTHS	6 MONTHS TO LESS THAN 12 MONTHS
CHARLESWOOD-TUXEDO	1	1	1	-	1	-	1	1
FT. GARRY	3	2	-	1	-	-	-	-
EAST & NORTH KILDONAN	2	1	-	-	1	-	2	2
OLD & WEST KILDONAN	-	2	2	-	-	1	-	1
ST. BONIFACE	5	2	-	1	-	1	-	-
ST. JAMES	2	-	-	-	-	1	-	-
EAST & WEST ST. PAUL	-	1	-	-	-	-	-	-
ST. VITAL	5	1	1	-	1	-	-	-
TRANSCONA	-	-	-	-	-	-	-	1
INNER CITY	9	5	2	-	4	5	3	3
WINNIPEG TOTAL	27	15	6	2	7	8	6	8

SOURCE: Manitoba Vital Statistics registrations.

DEATH RATES* UNDER 1 YEAR OF AGE BY WINNIPEG AREAS AND BY SELECTED AGES 1986

	LESS THAN 1 DAY	1 TO LESS THAN 3 DAYS	3 TO LESS THAN 7 DAYS	7 TO LESS THAN 15 DAYS	15 TO LESS THAN 28 DAYS	28 DAYS TO LESS THAN 3 MONTHS	3 MONTHS TO LESS THAN 6 MONTHS	6 MONTHS TO LESS THAN 12 MONTHS
CHARLESWOOD-TUXEDO	**	**	**	-	**	-	**	**
FT. GARRY	4.1	**	-	**	-	-	-	-
EAST & NORTH KILDONAN	**	**	-	-	**	-	**	**
OLD & WEST KILDONAN	-	**	**	-	-	**	-	**
ST. BONIFACE	9.8	**	-	**	-	**	-	-
ST. JAMES	**	-	-	-	-	**	-	-
EAST & WEST ST. PAUL	-	**	-	-	-	-	-	-
ST. VITAL	6.3	**	**	-	**	-	-	-
TRANSCONA	-	-	-	-	-	-	-	**
INNER CITY	2.6	1.5	**	-	1.2	1.5	0.9	0.9
WINNIPEG TOTAL	3.0	1.7	0.7	**	0.8	0.9	0.7	0.9

SOURCE: Manitoba Vital Statistics registrations.

* All rates are defined as the number per 1,000 live births.
** Not calculated due to low incidence.

VI-1

SELECTED VITAL STATISTICS RATES(1) BY MANITOBA HEALTH & COMMUNITY SERVICE REGION OF RESIDENCE 1986

VITAL STATISTICS	POPULATION	LIVE BIRTH RATE (2)	STILLBIRTH RATIO (3)	FIRST DAY DEATH RATE	NEWBORN DEATH RATE	PERINATAL DEATH RATE (4)	NEONATAL DEATH RATE	POST-NEONATAL DEATH RATE	INFANT DEATH RATE
CENTRAL	90,678	17.0	5.8	3.9	6.5	12.2	6.5	2.6	9.1
EASTMAN	73,217	15.7	5.2	3.5	7.0	12.1	7.0	**	7.8
INTERLAKE	63,722	14.1	7.7	4.5	4.5	12.2	4.5	-	4.5
NORMAN	20,619	17.4	**	**	**	**	-	8.4	11.2
PARKLAND	43,828	11.5	**	-	-	**	**	**	6.0
THOMPSON	20,622	22.1	**	-	-	**	**	6.6	6.6
WESTMAN	117,885	14.4	5.9	2.9	5.3	11.1	5.3	2.9	8.3
WINNIPEG	622,150	14.4	4.8	3.0	5.4	10.1	6.4	2.5	8.8
I.R. & U.T.	62,864	21.3	12.0	4.5	6.7	18.5	6.7	6.7	13.5
MANITOBA TOTAL	1,115,585	15.2	5.6	3.1	5.3	10.8	5.9	2.9	8.8

SOURCE: Manitoba Health Services Commission population records.
Manitoba Vital Statistics registrations.

(1) Unless otherwise indicated rates are per 1,000 live births.
(2) Live birth rate is defined as the number of live births per 1,000 population.
(3) Stillbirths are defined as fetal deaths of 20 or more weeks gestation.
(4) Perinatal death rate is defined as fetal deaths of 20 or more weeks gestation plus infant deaths under 7 days of age per 1,000 total births.

** Not calculated due to low incidence.

VI-2A

SELECTED VITAL STATISTICS* BY INFANT WEIGHT AT BIRTH 1986

VITAL STATISTICS	STILLBIRTHS	NEWBORN DEATHS	TOTAL PERINATAL DEATHS	LIVE BIRTHS	TOTAL BIRTHS	STILLBIRTH RATIO	NEWBORN DEATH RATE	PERINATAL DEATH RATE
WT. GRAMS								
< 1500	36	40	76	146	182	246.6	274.0	417.6
1500 - 1999	8	8	16	189	197	42.3	42.3	81.2
2000 - 2499	10	8	18	569	579	17.6	14.1	31.1
2500 - 2999	6	10	16	2,178	2,184	2.8	4.6	7.3
3000 - 3499	4	9	13	5,928	5,932	0.7	1.5	2.2
3500+	9	10	19	7,881	7,890	1.1	1.3	2.4
TOTAL	95 (1)	89 (2)	184 (3)	16,907 (4)	17,002 (5)	5.6	5.3	10.8

SOURCE: Manitoba Vital Statistics registrations.

(1) Includes 22 missing observations.
(2) Includes 4 missing observations.
(3) Includes 26 missing observations.
(4) Includes 16 missing observations.
(5) Includes 38 missing observations.

* Data are for Manitoba residents. For stillbirths and perinatal deaths, fetal deaths of 20 or more weeks gestation are used.

VI-2B

SELECTED VITAL STATISTICS* BY PARITY 1986

VITAL STATISTICS	STILLBIRTHS	NEWBORN DEATHS	TOTAL PERINATAL DEATHS	LIVE BIRTHS	TOTAL BIRTHS	STILLBIRTH RATIO	NEWBORN DEATH RATE	PERINATAL DEATH RATE
PARITY								
1	32	38	70	6,724	6,756	4.8	5.7	10.4
2	34	27	61	5,620	5,654	6.0	4.8	10.8
3	14	14	28	2,700	2,714	5.2	5.2	10.3
4	8	7	15	961	969	8.3	7.3	15.5
5	2	5	7	365	367	**	13.7	19.1
6	3	1	4	188	191	16.0	**	20.9
7	1	-	1	83	84	**	-	**
8+	1	-	1	74	75	**	-	**
TOTAL	95	92	187	16,734 (1)	16,810	5.7	5.5	11.1

SOURCE: Manitoba Vital Statistics registrations.

(1) 19 Missing observations. Also, some mothers experienced multiple births with more than 1 newborn death.

* Data are for Manitoba residents only. For stillbirths and perinatal deaths, fetal deaths of 20 or more weeks gestation are used.
The counts and rates presented here differ from those in part IV as these are presented by characteristics of mothers and not infants.

** Not calculated due to low incidence.

SELECTED VITAL STATISTICS* BY MOTHER'S AGE 1986

VITAL STATISTICS	STILLBIRTHS	NEWBORN DEATHS	TOTAL PERINATAL DEATHS	LIVE BIRTHS	TOTAL BIRTHS	STILLBIRTH RATIO	NEWBORN DEATH RATE	PERINATAL DEATH RATE
AGE								
< 15	-	-	-	26	26	-	-	-
15 - 16	1	1	2	259	260	**	**	**
17	1	1	2	279	280	**	**	**
18 - 19	5	4	9	936	941	5.3	4.3	9.6
20 - 24	32	25	57	4,527	4,559	7.1	5.5	12.5
25 - 29	35	35	70	6,115	6,150	5.7	5.7	11.4
30 - 34	14	18	32	3,521	3,535	4.0	5.1	9.1
35 - 39	6	7	13	951	957	6.3	7.4	13.7
40 - 44	1	-	1	111	112	**	**	**
45 - 49	-	-	-	7	7	-	-	-
TOTAL	95	92 (1)	187 (1)	16,734 (2)	16,829 (2)	5.6	5.5	11.7

SOURCE: Manitoba Vital Statistics registrations.

(1) 1 missing value included in total.
(2) 2 missing values included in total.

* Data are for Manitoba residents only. For stillbirths and perinatal deaths, fetal deaths of 20 or more weeks gestation are used.
The counts and rates presented here differ from those in Part IV as these are presented by characteristics of mothers and not infants.

** Not calculated due to low incidence.

NOTE: Some mothers had more than 1 live birth.

VI-3A

PERCENTAGE DISTRIBUTION OF LIVE BIRTHS BY BIRTH WEIGHT[1] AND

MANITOBA HEALTH & COMMUNITY SERVICES REGION 1986

WEIGHT (gm)	LESS THAN 1500	1500 TO LESS THAN 2000	2000 TO LESS THAN 2500	2500 TO LESS THAN 3000	3000 TO LESS THAN 3500	3500+	TOTAL LIVE BIRTHS	MEAN WEIGHT (gm)
CENTRAL	0.8	0.6	2.6	13.3	34.7	47.9	1,544	3,453
EASTMAN	1.1	1.3	2.4	10.4	35.3	49.3	1,149	3,464
INTERLAKE	0.7	0.8	2.2	11.7	36.7	47.9	896	3,480
NORMAN	0.6	0.8	3.9	11.5	36.9	46.4	358	3,435
PARKLAND	0.6	0.6	2.8	10.7	37.1	48.2	504	3,461
THOMPSON	-	1.3	2.9	9.5	36.0	50.3	453	3,501
WESTMAN	0.8	0.9	2.2	13.1	35.0	47.9	1,696	3,454
WINNIPEG	0.9	1.3	4.0	13.8	35.6	44.4	8,959	3,398
I.R. & U.T.	0.8	1.2	3.3	11.6	29.2	53.9	1,332	3,498
MANITOBA TOTAL	0.9	1.1	3.4	12.9	35.1	46.7	16,891 [2]	3,431

SOURCE: Manitoba Vital Statistics registrations.

(1) Data are for Manitoba residents only.
(2) 16 Missing cases.

PERCENTAGE DISTRIBUTION OF MOTHERS BY PARITY(1) AND MANITOBA HEALTH & COMMUNITY SERVICES REGION 1986

PARITY	1	2	3	4	5	6	7	8+	TOTAL NO. MOTHERS
CENTRAL	33.6	31.0	20.3	6.5	3.7	2.4	1.2	1.0	1,609
EASTMAN	31.6	33.8	17.9	9.0	3.6	2.0	1.1	0.9	1,517
INTERLAKE	37.8	33.9	17.5	7.0	2.4	0.6	**	0.6	969
NORMAN	37.3	32.8	17.0	7.4	2.6	1.3	**	**	458
PARKLAND	36.5	30.0	20.1	7.0	3.6	1.8	0.7	**	616
THOMPSON	35.1	30.0	16.8	8.1	5.2	2.3	1.0	1.2	985
WESTMAN	38.2	34.0	18.0	6.4	1.7	0.9	0.6	0.2	1,716
WINNIPEG	44.5	34.6	14.2	4.3	1.3	0.7	0.2	0.2	8,864
MANITOBA TOTAL	40.2	33.6	16.1	5.7	2.2	1.1	0.5	0.4	16,734

SOURCE: Manitoba Vital Statistics registrations.

(1) Data are for Manitoba residents only.

** Not calculated due to low incidence.

VI-3C

PERCENTAGE DISTRIBUTION OF LIVE BIRTHS BY MOTHER'S AGE(1) AND MANITOBA HEALTH & COMMUNITY SERVICES REGION 1986

AGE	14 OR LESS	15-16	17	18-19	20-24	25-29	30-34	35-39	40-44	45-49	TOTAL NO. MOTHERS
CENTRAL	-	1.3	1.2	5.0	29.8	38.8	18.0	4.9	0.9	**	1,609
EASTMAN	0.2	1.7	3.1	6.7	28.6	35.0	18.9	4.9	0.9	**	1,517
INTERLAKE	-	1.7	2.1	6.4	27.6	38.9	18.5	4.1	0.8	-	969
NORMAN	**	2.6	2.2	10.5	38.7	30.1	12.2	3.1	**	-	458
PARKLAND	0.5	2.6	2.8	6.3	31.3	33.0	18.2	4.9	0.5	-	616
THOMPSON	0.8	4.4	4.6	10.7	37.3	25.3	12.9	3.9	0.3	-	985
WESTMAN	**	0.9	1.1	5.3	31.1	37.5	17.8	4.8	0.4	**	1,716
WINNIPEG	0.1	1.2	1.1	4.4	23.4	37.8	24.4	6.7	0.7	**	8,864 (2)
MANITOBA TOTAL	0.2	1.5	1.7	5.6	27.0	36.5	21.0	5.7	0.7	0.1	16,734

SOURCE: Manitoba Vital Statistics registrations.

(1) Data are for Manitoba residents only.
(2) Includes 2 missing observations for Winnipeg, age unknown.

** Not calculated due to low prevalence.

NUMBER OF LIVE BIRTHS AND PERCENTAGE DISTRIBUTION 1986

A. BIRTH WEIGHT BY REGION

WT (gm)	less than 1500		1500 - 2499		2500+		
REGION	#	%	#	%	#	%	TOTAL #
WINNIPEG	85	1.0	472	5.3	8,402	93.8	8,959
OTHER REGIONS	61	0.8	286	3.6	7,585	95.6	7,932
MANITOBA	146	0.9	758	4.5	15,987	94.6	16,891(1)

(1) Includes 16 missing observations - not categorized by weight.

Note: The weight categories have been changed from previous reports to reflect the definition of low birth weight (< 2500 gm) and very low birth weight (<1500 gm).

B. PARITY* BY REGION

PARITY	1		2 - 4		5+		TOTAL	
REGION	#	%	#	%	#	%	#	
WINNIPEG	3,941	44.5	4,709	53.7	205	2.3	8,864	(1)
OTHER REGIONS	2,783	35.9	4,572	58.1	505	6.4	7,870	(2)
MANITOBA	6,724	40.2	9,281	55.5	710	4.2	16,734	(3)

* Parity is defined as the total number of births, current and previous, and live and still, by an individual mother.
(1) Includes 9 missing observations.
(2) Includes 10 missing observations.
(3) Includes 19 missing observations.

C. MOTHER'S AGE BY REGION

AGE	less than 20 Yrs.		20 - 34 Yrs.		35+ Yrs.		TOTAL	
REGION	#	%	#	%	#	%	#	
WINNIPEG	613	6.9	7,592	85.6	657	7.4	8,864	(1)
OTHER REGIONS	887	11.2	6,571	83.5	412	5.2	7,870	
MANITOBA	1,500	9.0	14,163	84.6	1,069	6.4	16,734	(1)

(1) Includes 2 missing observations.

SOURCE: Manitoba Vital Statistics registrations.

NOTE: Totals do not agree between parts B and C because of missing data.

VI-5A

DEATHS(1) UNDER ONE YEAR OF AGE BY MANITOBA HEALTH & COMMUNITY SERVICES REGION 1986

AGE	LESS THAN 1 DAY	1 TO LESS THAN 3 DAYS	3 TO LESS THAN 7 DAYS	7 TO LESS THAN 15 DAYS	15 TO LESS THAN 28 DAYS	28 DAYS TO LESS THAN 3 MONTHS	3 TO LESS THAN 6 MONTHS	6 TO LESS THAN 12 MONTHS
CENTRAL	6	4	-	-	-	3	-	1
EASTMAN	4	4	-	-	-	-	1	-
INTERLAKE	4	-	-	-	-	-	-	-
NORMAN	1	-	-	-	-	2	1	-
PARKLAND	-	-	-	-	1	2	-	-
THOMPSON	-	-	-	-	-	2	-	1
WESTMAN	5	3	1	-	-	4	-	1
WINNIPEG	27	15	6	2	7	8	6	8
I.R. & U.T.	6	2	1	-	-	3	4	2
MANITOBA TOTAL	53	28	8	2	8	24	12	13

SOURCE: Manitoba Vital Statistics registrations.

(1) Manitoba residents only.

DEATH RATES* UNDER ONE YEAR OF AGE BY MANITOBA HEALTH & COMMUNITY SERVICES REGION 1986

AGE	LESS THAN 1 DAY	1 TO LESS THAN 3 DAYS	3 TO LESS THAN 7 DAYS	7 TO LESS THAN 15 DAYS	15 TO LESS THAN 28 DAYS	28 DAYS TO LESS THAN 3 MONTHS	3 TO LESS THAN 6 MONTHS	6 TO LESS THAN 12 MONTHS
CENTRAL	3.9	2.6	-	-	-	1.9	-	**
EASTMAN	3.5	3.5	-	-	-	-	**	-
INTERLAKE	4.5	-	-	-	-	-	-	-
NORMAN	**	-	-	-	-	**	**	-
PARKLAND	-	-	-	-	**	**	-	-
THOMPSON	-	-	-	-	-	**	-	**
WESTMAN	2.9	1.8	**	-	-	2.4	-	**
WINNIPEG	3.0	1.7	0.7	**	0.8	0.9	0.7	0.9
I.R. & U.T.	4.5	**	**	-	-	2.2	3.0	**
MANITOBA TOTAL	3.1	1.7	0.4	**	0.5	1.4	0.7	0.8

SOURCE: Manitoba Vital Statistics registrations.

* All rates are defined as the number per 1,000 live births.
** Not calculated due to low incidence.